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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,895	07/17/2003	Eric K. Hall	907A.0115.U1(US)	4996
29683 H A R R INGTO	29683 7590 04/04/2007 HARRINGTON & SMITH, PC		EXAMINER	
4 RESEARCH	DRIVE		MALEK, LEILA	
SHELTON, CT 06484-6212			ART UNIT	PAPER NUMBER
			2611	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MC	ONTHS	04/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)			
	10/622,895	HALL ET AL.			
Office Action Summary	Examiner	Art Unit			
· .	Leila Malek	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 22 Ja	nuary 2007.				
2a) This action is FINAL . 2b) ⊠ This	a) This action is FINAL . 2b) ⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 21 and 22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 21 is/are rejected. 7) Claim(s) 22 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 07/17/2003 is/are: a) ☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	accepted or b) objected to by drawing(s) be held in abeyance. Ser ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			
J.S. Patent and Trademark Office					

Application/Control Number: 10/622,895

Art Unit: 2611

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on page 7, lines 6 and 7, the relation between the matrices is not clear. It is not clear if they have been multiplied, or if they are just neighboring matrices. Appropriate correction is required.

Claim Objections

2. Claim 21 is objected to because of the following informalities: as to claim 21, the last paragraph of the claim (i.e. a modulator for modulating ...) is not part of the reordering process, therefore it should not be under "a controller for reordering:" section. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Giallorenzi et al. (hereafter, referred as Giallorenzi) (US 6,091,760).

As to claim 21, Giallorenzi discloses a substantially synchronous CDMA communications system (see the abstract and column 4, lines 51-65), comprising: a radio base unit 12 (see Fig. 9) capable of bi-directional wireless multirate communications (see column 13, lines 43-46) with a plurality of subscriber units 14,

each subscriber unit having a subscriber unit data rate; and a controller for reordering (see claim 11): a Hadamard matrix (see the abstract, column 4, lines 37-44) by exchanging columns and rows (see column 2, lines 39-42) of the first Hadamard matrix in accordance with at least one first predetermined reordering code (see Fig. 12) to produce a first reordered PN code set having improved spectral properties (see the abstract and column 4, lines 51-65); at least two second Hadamard matrices (see the abstract and column 4, lines 37-44) by exchanging columns and rows of each of the second Hadamard matrices in accordance with at least one second predetermined reordering code to produce at least two second reordered PN code sets; and a modulator for modulating (see the abstract and column 4, lines 37-44) the first reordered PN code set with each of the second PN code sets to generate at least two usable PN code sets for modulating a data signal of the subscriber units as a function of the subscriber unit data rate (see claim 11).

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Allowable Subject Matter

4. Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leila Malek whose telephone number is 571-272-8731. The examiner can normally be reached on 9AM-5:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Leila Malek Examiner Art Unit 2611

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